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NCAU = ★ Q42 F3245 D/23 ★ SU-767-277
Soil mechanical characteristic tester - has chamber formed by
pressure chambers walls which include sections with elastic
walls

N CAUCASUS SEVKAVGI(MOWA =) 15.12.78-SU-697500
(05.10.80) E02d-01/02

15.12.78 as 697500 (3pp121)

The instrument for testing the soils mechanical properties
measures the horizontal component of massive deformation by
an additional chamber contained between shell and the pressure
chamber.

The sample (1) is located in the cylinder (2) and pressed
between the stamps (4,5). The chamber's (7) elastic walls (5) face
the sample whilst the walls of the chamber (8) face outside. The
inserts (3) and (9) reduce the friction. The liquid filled chambers
(7) and (8) are connected by a tube (10) which has a pressure
transmitter (11) and a flow indicator (12).

The sample is placed between two perforated pistons. The
chambers are placed inside the sample, with the elastic walls of
the adjoining chambers facing opposite directions. Sample is
deformed, the liquid from the chamber whose elastic wall faces it
is pumped into the chamber whose elastic wall faces outside and
deforms the surrounding soil. The pressure and the volume of
transferred liquid is measured (11,12). Bul.35/23.9.80.

